

3/28/2018

Print



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit
P0039413	ACI001-VC	2	1	Net 30	M1018B1.000X03.000	1010-1025 Steel Bar 1.000 X 3.000 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W				12	4/3/2018	12		S056016	Stock	3/28/2018	\$ 10.81 / ft
		4			M303R0.625	303 Round Bar 0.625" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft						12		S056017	Stock	3/28/2018	\$ 4.13 / ft
		5			M304R0.375	304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft						12		S056018	Stock	3/28/2018	\$ 1.19 / ft
		6			MT-A513-T- 1.000W0.120	A513 Seamless Alloy Steel Round Tubing 1"dia. x 0.120" Wall ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM) SPECIFICATION: ASTM A513 TYPE 5				100		105		S056019	Stock	3/28/2018	\$ 2.47 / ft
		7			M6061T6R0.750	6061-T6 Round Bar .750" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				40		40		S056020	Stock	3/28/2018	\$ 1.44 / ft
		9			MT-Q1-R1.250	Tool Steel Round Bar 1.250 dia.				12		14		S056021	Stock	3/28/2018	\$ 12.08 / ft
		10			M304B1.000X1.000	304 Bar 1.00 X 1.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft						12		S056022	Stock	3/28/2018	\$ 14.14 / ft
		11			M6061T6B0.750X02.500	6061-T6 Bar .750 X 2.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						12		S056023	Stock	3/28/2018	\$ 6.09 / ft
		12			M6061T6B0.375X1.000	6061T6 Bar .375 X 1.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				20		20		S056024	Stock	3/28/2018	\$ 1.15 / ft

3/28/2018

Print

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit
		13			M6061T6B1.000X06.000	6061T6 Bar 1.00 X 6.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				36		36		S056025	Stock	3/28/2018	\$ 19.45 / ft
Total:										268		275					

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Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO039413**

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO039413
PO Date: 3/23/18
Due Date: 4/3/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pynt Terms: Net 30
Freight Terms:
Special Comments: QUOTE NO SOU0093847

REVISED

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	MT-4140-S-0.500X10.000		AISI 4140 Steel Sheet/Plate as per ASTM A829 OR AMS 6395	Firmed	4/3/18	6.667 sf	0 sf	7 sf	\$58.217082/sf	\$388.13
Line Item Note 1 pcs of 10" x 96" 28-32 rc										
2	M1018B1.000X03.000		1010-1025 Steel Bar 1.000 X 3.000 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W	Firmed	4/3/18	12 ft	0 ft	12 ft	\$10.80666/ft	\$129.68
							12'		MAR 28 2018	
									DAS 11 9-89	
3	M6061T6S.090		6061-T6 .090 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	4/3/18	96 sf	0 sf	96 sf	\$6.358125/sf	\$610.38
4	M303R0.625		303 Round Bar 0.625" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	4/3/18	12 ft	0 ft	12 ft	\$4.13333/ft	\$49.60
									MAR 28 2018	
							12'		DAS 11 9-89	
5	M304R0.375		304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	4/3/18	12 ft	0 ft	12 ft	\$1.188/ft	\$14.26
									MAR 28 2018	
							12'		DAS 11 9-89	

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
6	MT-A513-T-1.000W0.120		A513 Seamless Alloy Steel Round Tubing 1"dia. x 0.120" Wall ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM) SPECIFICATION: ASTM A513 TYPE 5	Firmed	4/3/18	100 ft	0 ft	100 ft	\$2.4695/ft	\$246.95
7	M6061T6R0.750		6061-T6 Round Bar .750" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	4/3/18	40 ft	0 ft	40 ft	\$1.44325/ft	\$57.73
8	M17-4-H1150-R0.625		17-4 SS Round Bar H1150 0.625" dia. : MATERIAL: 17-4 PH CONDITION H1150 receive ft	Firmed	4/10/18	12 ft	0 ft	12 ft	\$28.75/ft	\$345.00
9	MT-O1-R1.250		Tool Steel Round Bar 1.250 dia.	Firmed	4/3/18	12 ft	0 ft	12 ft	\$12.08333/ft	\$145.00
10	M304B1.000X1.000		304 Bar 1.00 X 1.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	4/3/18	12 ft	0 ft	12 ft	\$14.1425/ft	\$169.71
11	M6061T6B0.750X02.500		6061-T6 Bar .750 X 2.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	4/3/18	12 ft	0 ft	12 ft	\$6.085/ft	\$73.02
12	M6061T6B0.375X1.000		6061T6 Bar .375 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	4/3/18	20 ft	0 ft	20 ft	\$1.152/ft	\$23.04

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
13	M6061T6B1.000X06.000		6061T6 Bar 1.00 X 6.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	4/3/18	36 ft	0 ft	36 ft	\$19.451666/ft	\$700.26
14	MT-4140-S-0.375X5.500		AISI 4140 Steel Sheet/Plate	Firmed	4/3/18	6 ft	0 ft	6 ft	\$33.66666/ft	\$202.00
Grand Total:										\$3,154.76

Order Notes

Procurement Quality Clauses

A005 right of entry
 A012 chemical and physical test report
 A016 personnel qualification
 A017 raw material identification (as applicable)
 A026 certification of material conformance
 A041 quality management system
 A042 dart notification by supplier
 A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 3/28/18 1:56 PM dart.lavoie.chantal



DELIVERY - CLIENT

CO00080251

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,
Att : CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5

Instruction F-M

Customer N° CL10001056
Date 2018/03/23
Delivery date 2018/03/28
Your order N° 039413
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 FLAT CR 1 X 3 1018 (R) FCR-13 2727 1 X 12' R/L HEAT: 171456 LINE 2	122.40	12.00	PL \$CLB		1x 12'2"		12'1"			MAR 28 2018	DAS 11 9-89
2 ALU SHEET .091 (11G) 6061-T6 (4 X 12) FEAL-0914126061 3219 2 X 4' X 12' HEAT: LINE 3 AC14716-SA-28/03	123.07	96.00	PI2 \$CLB		2x 4'x2'						
3 ROUND SS 5/8 303 RANDOM NS RSS-58303-V 8749 1 X 12' R/L HEAT: 47715 LINE 4 AC14638-MM-26/03	12.52	12.00	PI \$CLB		1x 12'1"		12'1"			MAR 28 2018	DAS 11 9-89

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00080251

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N° CL10001056
Date 2018/03/23
Delivery date 2018/03/28
Your order N° 039413
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 2

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	OUT
4 ROUND SS 3/8 304 (R) RSS-38 5768 1 X 12' R/L HEAT: 646M LINE 5	4.51	12.00	PL \$CLB		14		12' 0"			DAS 11 9-89 MAR 28 2018
5 TUBE MEC 1,000 OD X .120 (R) TME-1000120 6505	112.80	100.00	PL \$CPI		57		105'			DAS 11 9-89 MAR 28 2018
6 ROUND ALU 3/4 6061-T6 * RAL-34 5157 2 X 20' HEAT: 68706 LINE 7	20.92	40.00	PL \$CLB		24		40'			DAS 11 9-89 MAR 28 2018
7 ROUND O1 1 1/4 RANDOM NS ROI-114 10307 1 X 12' HEAT: 9916058008 LINE 9 AC14642-FU-26703	50.06	12.00	PI		14		14'			DAS 11 9-89 MAR 28 2018

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00080251

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer No°

CL10001056

Date

2018/03/23

Delivery date

2018/03/28

Your order No°

039413

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

3

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only					
				CMD	EXP	B/O	IN	I	S	C	OUT	
8 SQUARE SS 1 SS304 (R) CSS-1 2085 1 X 12' R/L HEAT: 55161496 LINE 10	40.80	12.00	PL \$CLB		14 12'8"		12'				MAR 28 2018 11 9-89	
9 FLAT ALU 3/4 X 2 1/2 6061-T6 * FAL-34212 2590 1 X 12' HEAT: 68295 LINE 11	26.46	12.00	PL \$CLB		14 12'		12'				MAR 28 2018 11 9-89	
TRANSIT ST-JEROME LE 26-03												
11 FLAT ALU 3/8 X 1 6061-T6 * FAL-381 2613 1 X 20' HEAT: 384191 LINE 12	9.00	20.00	PL \$CLB		14 20'		20'				MAR 28 2018 11 9-89	

NIR : R-109516-6

Next Page...

ACIER OUELLETTE INC.

935, Bou. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CL10001056

Date _____

2018/03/23

Delivery date

2018/03/28

Your order No.

039413

Shipped to

Processed by

Josianne Bourdon

Salesman

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

, Ontario,

Carrier

OUELLETTE VALLEYFIELD

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Circuit Clinic

1000 days

Instruction	F-M
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Delivery Route	5
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Page

1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only					
				CMD	EXP	B/O	IN	I	S	C	OUT	
12 FLAT ALU 1 X 6 6061-T6 * FAL-16 2536 3 X 12 HEAT: 37241 LINE 13 TRANSFERT 2408 26/03	253.76	36.00	PL_\$CLB		3x12	HEAT	361					DAS 11 19-89

Conditions :

All sold and delivered materials remain the property of "Acier Cuellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Cuellette Inc." is the same as offered and honored by the manufacturer and its warranty is transferred by "Acier Cuellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to 25% restocking charge.

Total Weight (Lbs) : 776.30

NIR : R-109516-6

Prepared By:

Verified By :

Delivered By:

Time

Y
M
D

Customer's Signature _____

Date _____

Total (\$CAD)

2727

FCR-13

TR-1923

49193

COLD FINISHED
FLAT BARS

Pol. Ind Bazarre S/N
20720 Azkoitia (Gipuzkoa)
Spain
www.nuevaincal.com
CIF/A48: ESA48415350

Admin. y Finanzas / Accounts
Tel.: (+34) 946 867 311
(+34) 946 261 712
Fax: (+34) 943 057 312
nuevaincal@nuevaincal.com

Comercial
Tel.: (+34) 946 261 712
Fax: (+34) 946 264 826
monolobad@nuevaincal.com

CERTIFICADO DE CALIDAD

Destinatario :
Material :

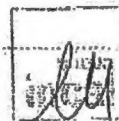
LES ACIERS TRANSBEC
COLD ROLL SAE 1018. ACCORDING TO ASTM A108

CERTIFICAMOS : Que el material suministrado con cargo a los pedidos de referencia y amparado por nuestro albarán N° EX/4.773 y Fra. N° FV17/286 corresponden a los análisis y fusiones siguientes de acuerdo con la norma EN 10204 / 2.2:

S./Pedidos N°	Composición Química de la colada								Caract. mecánicas laminado		
	MATERIAL	CALIDAD	COLADA	C. %	Mn. %	Si %	S. %	P. %	Re N/mm2	Rm N/mm2	A %
MN-47089	5 X 3/8		171108	0,15	0,77	0,14	0,002	0,016	554,00	580,00	12,00
MN-47093	2 X 1/4		590449	0,16	0,76	0,20	0,011	0,017	329,00	495,00	29,00
MN-47093	5 X 3/8		171108	0,15	0,77	0,14	0,002	0,016	554,00	580,00	12,00
MN-47093	6 X 3/4		170723	0,17	0,75	0,19	0,002	0,021	553,00	580,00	14,00
OU-48311	2 X 3/4	FOR 342	171454	0,16	0,73	0,19	0,005	0,017	307,26	446,12	26,18
OU-48311	2 X 3/4	FOR 343	171455	0,15	0,70	0,16	0,005	0,017	328,17	455,80	24,31
OU-48311	3 X 1	FOR 13	171456	0,15	0,70	0,19	0,004	0,019	319,60	453,88	26,57
OU-48311	4 X 1/2	FOR 124	171428	0,16	0,81	0,18	0,011	0,017	315,61	448,72	26,44
PAJ-48098	2 X 1/2		171444	0,17	0,79	0,19	0,007	0,016	313,22	462,60	24,10
PAJ-48098	3 X 3/8		171438	0,19	0,80	0,24	0,008	0,017	325,45	456,76	24,91
PAJ-48098	3 X 3/4		171455	0,15	0,70	0,16	0,005	0,017	328,17	455,80	24,31
PAJ-48098	3 X 1-1/2		170400	0,16	0,79	0,18	0,004	0,016	328,17	455,80	24,31
PAJ-48098	6 X 1/2		171612	0,16	0,82	0,20	0,004	0,018	550,00	576,00	13,00
PAJ-48098	6 X 1		170932	0,17	0,75	0,16	0,005	0,019	557,00	585,00	14,00
PAJ-48098	8 X 3/4		162602	0,18	0,79	0,16	0,003	0,012	558,00	586,00	14,00
PAR-48178	2 X 3/16		54305	0,15	0,70	0,18	0,036	0,011	348,00	481,00	32,70
PAR-48178	6 X 1/2		171612	0,16	0,82	0,20	0,004	0,018	550,00	576,00	13,00

Gornika (SPAIN), 11 de Septiembre de 2017

Responsable de Calidad

COLD FINISHED
FLAT BARS

CO. 80251

DART

PO. 14638 N

VIRAJ PROFILES LIMITED

Works: SURVEY NO.- 25/1, 25/2, 26 & 34, Village- MAAN, Taluka- PALGHAR, Dist.- THANE, MAHARASHTRA -401 506, INDIA,
e-mail- virajco@viraj.com

TEST CERTIFICATE

ORDER NO P006028 PACKING LIST NO 64/75012215/14 INSPECTION NO 100009262788 DATE 20.11.2017
GRADE T-303 HEAT No 47715

BUNDLE NO:
1100799336, 1100799335, 1100799334.

DESCRIPTION

STAINLESS STEEL BRIGHT BARS

COLD DRAWN POLISHED - 2H

SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	WEIGHT
3/8"	ROUND	ASTM A484	12'-14'	247	3,135.000 LB

CHEMICAL ANALYSIS

%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%Co	%N2
0.0430	1.970	0.300	0.2880	0.0340	17.360	8.040	0.490	0.290	0.150	0.03100

TEST RESULTS

0.2% yield strength ksi	Tensile Strength ksi	Elongation %	Reduction Of Area %	Hardness HEN	Grain Size NOS
91.0	106.0	39.0	36.0	216.0	7.0

SPECIFICATION:

MATERIAL CONFORMS TO DIN 10088-3:2005 COND-A & ASTM A582/A582M-12a1, ASTM A 388-05, ASTM A484-14 AMS 3640U TYPE I, EXCEPT MARKING, QQ8-744BA3 COND A, EXCEPT MARKING, UNS-S-36300, ASTM A314-2002, ASTM A328/A328M-13a, DEF CLASS 1, AMS 2A 320 DEF CLI MIL-S-882 B GRADE AMS 303 & WTR 1.4303.
CERTIFIED AS PER EN 10204-3.1

REMARKS

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MICRO-FREE FROM CONTINUOUS CARBIDE NETWORK ON GRAIN BOUNDARIES. MACRO-GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 1/2 HRS, WATER QUENCHED. MEET SOURCE: WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION. COUNTRY OF ORIGIN: INDIA.

We hereby certify that the material described above has been tested and complies with the terms of order/contract.

WORKS INSPECTOR
K. H. MURTHY



METALLURGICAL TEST REPORT

06870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000 .

Customer: 007080 003

HAS Order: IM 0257931 04 Net Total Code: 44,987

Date: 1/19/2018 Page: 1
Steel: 304/304L
Finish: CD
Corrosion: ASTM A262/15 Prac A/E OK

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
UNS 30400/30403 EN 10204 3.1, ASTM A484/16
ASTM A276/17, ASTM A479/17, ASTM A192/16a CHRM ORLT,
ASME SA479/13, ASME SA192/13 CHRM ORLT,
AMS 5635/0, AMS 5647/L, AMS 908-763D, 908-763F, ASTM F899/13b
SOLUTION ANNEAL, TEMP 1900F MIN, ASTM A320/17a CL 1 GR B8
ASTM A193/16-ASME SA193/13 CL 1 GR B8

REMARKS:

COMPETES W/REQUIREMENTS OF DPM 252.225-7009 EU DIRECTIVE 2011/65/EU. NOISE. EAF+AOB+CC. NO FIELD REPAIR. HELMED AND WFG IN DPA FILE FROM MEMOEX AND LOW MELTING ALLOY COMBINATION.

$$\frac{3}{8}$$

CHEMICAL ANALYSIS

CM(Country of Mfg)	ES(Spain)	US(United States)	ZA(South Africa)	JP(Japan)
Chemical Analyts per ASTM 2751/14	10	10	10	10

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# 12323
(South Africa) JP(Japan) Chemical Analysis per ASTM A751/14a

MECHANICAL PROPERTIES

MECHANICAL PROPERTIES

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

**Technical
Dept. Mgr.**

KRIS LARK

1/19/2018

TME-1000120-V
#6505

TRA-1619
49646

TPI Work Test Certificate



TUBE INVESTMENTS OF INDIA
TUBE PRODUCTS OF INDIA - MODULE - 1
POST BOX NO.4 & 18, M T H ROAD, AVADI, CHENNAI - 600054



murugappa

Customer
Order No.

TC No
Date

: PAE/8C1720318
: 10-FEB-17

Description
Specification
Condition
Bundle No's

: PRECISION STEEL TUBES - CDW
: ASTM A513/A513M-15 TS C1020
: SRA
: 017000842

Invoice No
Invoice Date
Job /Batch No

: 4421810999
: 31-JAN-17
: RBCL1701331

Cust Part No
Bundle Tagging

:
: CUSTOMER SIZE /CONDITION /QUANTITY /GROSS WEIGHT /TAG MARKING /WO.NO. /SPEC &
GRADE /DESTINATION / BUNDLE NO /COUNTRY OF ORIGIN.

Tube Marking
P. Uom
Size

: P.O.NO. /TPI-ED /SIZE /SPEC /CONDITION /TAG MARKING /HEAT NO. /MADE IN INDIA.
: Inches
: 1.000" OD X 0.760" ID X 0.120" WT X 20'-24' R/L

Quantity In : 1857.513 Ft

LADLE ANALYSIS :

Process	Heat No.	%C	%Mn	%P	%S	%Si	%Al
Min		.18	.3				
Max		.23	.6	.035	.035		
Obs	D37954	.19	.49	.008	.005	.023	.054

Full Section Longitudinal Tensile Test at Room Temp

Test	Heat No.	Y.S	T.S	Elng.
Min		379	448	10
Max				
		MPA	MPA	%
OBS	D37954	480.9	565.76	22

Rockwell Hardness

Rockwell Hardness	OD	ID
75		
HRB		
84		

Roughness

Roughness	OD	ID

Dimensions in : Inches

Spec	OD	ID	WT	Len
Min	1	.735		240
Max	1.005	.76		288
OBS-Min	1.001	.757	0	267.283
OBS-Max	1.003	.759	0	284.016

Technological Tests :

Test	Spec	Result
Crushing		-
Flaring		-
Flattening		-
Flanging		-
Rev. Flang.		-
Elng. Gaug. Len		-

Non-Destructive Tests :

Test	Spec	Result
Straightness	0.76/1000 MM MAX	0.30 / 1000
Eddy Current	100	100% TESTED OK
Visual		DEFECT FREE
Ultrasonic Test		-

This is to certify that the goods are supplied as per the purchase order and specification Requirements

Prepared by : N. Ayyappan

Quality Shift Incharge Signature:

for Tube Investments of India
Unit: Tube Products of India Module - 1

S. Es
Mathavan.M
Mgn-Quality-IBP-TP

-123174 Item-CDW 1.000 .120 .760 Heat #-D37954

100 1120

RAL-34 # 5157

TRA-1723 49072

325 rue Avro
Pointe-Claire, QC, Canada H9R 5W3
Téléphone (514) 697-5120
Fac-simile (514) 694-8310

sapa

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address : 4054 BOUL. LE CORBUSIER, #201
LAVAL, QC
H7L5R2

commande Sapa / Sapa order # : 7020941

bon de commande / Purchase order # : OU-47416

de matrice / Die # : MS 9909

Description : 3/4" ROD

Alliage & trempage / Alloy & temper : 6061 T6 Longueur / Length : 6097 mm

Contrôle / Control # : 85611-1

Coulée / Cast # : 68706

Dureté Rockwell E /
Rockwell E hardness : 91 HRE

Min. requis /
Min. required : 88 HRE

Max. permis /
Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0,20 - 0,60	0,35 Max	0,10 Max	0,10 Max	0,45 - 0,90	0,10 Max	0,10 Max	0,10 Max
6005	0,60 - 0,90	0,35 Max	0,10 Max	0,10 Max	0,40 - 0,60	0,10 Max	0,10 Max	0,10 Max
6005A	0,66 - 0,74	0,14 - 0,28	0,08 - 0,16	0,18 - 0,26	0,46 - 0,54	0,03 Max	0,05 Max	0,05 Max
6061	0,40 - 0,80	0,70 Max	0,15 - 0,40	0,15 Max	0,80 - 1,20	0,04 - 0,35	0,25 Max	0,15 Max
6351	0,7 - 1,3	0,5 Max	0,10 Max	0,40 - 0,80	0,40 - 0,80	---	0,20 Max	0,20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre,
Yours truly,

date : 2017-03-28

Daniel Alfredo Pelletier
Directeur Qualité
Quality Director

RAL 34

80251
PART

Chemical certification
Certification chimique

P0,14642

Order Num / No. Commande AC-14642	Vendor / Fournisseur 51	Country of origin / Pay d'origine CHINA	Date 10/20/16	Heat / coulée 991605800B	Material ID # / No. matière
Grade / Nuance O1	Conditions ANNEALED				
Shape / Forme RD	Size / Dimension 1.250	Specifications ASTM A-681-08 / ASTM A-600-08			

Chemical composition / Analyse chimique

Carbon (C)		Silicon (Si)		Manganese (Mn)		Phosphorus (P)	
Mini / maxi	0.8500 / 1.0500	Mini / maxi	0.1000 / 0.3500	Mini / maxi	1.0000 / 1.4000	Mini / maxi	0.0000 / 0.0350
Actuel %	0.930	Actuel %	0.250	Actuel %	1.150	Actuel %	0.021
Sulphur (S)		Chromium (Cr)		Nickel (Ni)		Molybdenum (Mo)	
Mini / maxi	0.0000 / 0.0350	Mini / maxi	0.4000 / 0.7000	Mini / maxi	0.0000 / 0.0000	Mini / maxi	0.0000 / 0.2500
Actuel %	0.002	Actuel %	0.550	Actuel %	0.000	Actuel %	0.000
Cooper (Cu)		Vanadium (V)		Aluminum (Al)		Tungsten (W)	
Mini / maxi	0.0000 / 0.0000	Mini / maxi	0.0000 / 0.3000	Mini / maxi	0.0000 / 0.0000	Mini / maxi	0.4000 / 0.7000
Actuel %	0.000	Actuel %	0.060	Actuel %	0.000	Actuel %	0.550
Cobalt (Co)		Titanium (Ti)					
Mini / maxi	0.0000 / 0.0000	Mini / maxi	0.0000 / 0.0000	Mini / maxi	0.0000 / 0.0000	Mini / maxi	0.0000 / 0.0000
Actuel %	0.000	Actuel %	0.000	Actuel %	0.000	Actuel %	0.000

Mechanical properties / Propriétés Mécaniques

Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC	Surface Hd / Dureté
0.000 PSI	0.000 PSI	0.00	0.00		200 BHN

Note:

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut on été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.

Prepared by: / Préparé par:

2076

CSS-1-12

P0.5176

47814

BOLLINGHAUS STEEL Bollinghaus Steel, SA DIN EN ISO 9001:2008 TÜV CERT. No. 01 100 030458		Abnahmeprüfzeugnis/Mill Test Certificate/Certif. de Qualidade		No.: / Nr.: / Nr.:																																				
		EN 10204:2004 / 3.1		0000122986																																				
Unsere Innere Verweisung / Our Int. Ref / N/ ref int		Datum / Date / Data																																						
5600032873 000020		14.12.2016																																						
Normen / Standards / Normas																																								
TYPE 304/UNS S30400 and TYPE 304L/UNS S30403 acc. to ASTM A276/A276M-16a, ASTM A182/A182M-16a, ASTM A193/A193M-16, ASTM A479/A479M-16a, ASTM A320/A320M-15a, ASTM A314-15, ASTM A282-15 Pract. E, AMS QQ-S-763D, AMS 5639H, AMS 5647J, ASME SA479/SA479M, ASME SA276, ASME SA182/182M, ASME SA 193/SA193M, ASME SA320/SA320M, NACE MR0175-2015, execution as per ASTM A484/A484M-16.																																								
Bestell Nr./Order Nr./Enc.Nr. C106212		Bestell Nr./Order Nr./Enc.Nr. C106212.02																																						
Produktgruppe / Product Group / Grupo Produto		Gewicht / Weight / Peso		Bunde / Bundle / Atados																																				
AISI 304/L CD SQ 1"		2.157 lb		01																																				
Werkstoff-Nr. Material no. Qualidade		Werkstoff-Normbezeichnung / Material standard grade / Norma do material																																						
1.4307		X 2 CrNi 18-9																																						
Beschreibung / Description / Descrição																																								
Stainless steel cold drawn square bars. US-BFAR 252.225-7009: MELT SOURCE: United Kingdom / MFG: Portugal.																																								
Chemische Analyse in % / Chemical composition in % / Análise química em %																																								
<table border="1"> <tr> <td>Si</td><td>0.018</td> <td>Mn</td><td>1.730</td> <td>P</td><td>0.031</td> <td>S</td><td>0.025</td> <td>Cr</td><td>18.480</td> <td>Ni</td><td>8.100</td> </tr> <tr> <td>Co</td><td>0.138</td> <td>Cu</td><td>0.440</td> <td>N</td><td>0.080</td> <td>Ti</td><td>0.005</td> <td>Nb</td><td>0.017</td> <td>Al</td><td>0.005</td> </tr> </table>						Si	0.018	Mn	1.730	P	0.031	S	0.025	Cr	18.480	Ni	8.100	Co	0.138	Cu	0.440	N	0.080	Ti	0.005	Nb	0.017	Al	0.005											
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<table border="1"> <tr> <th colspan="3">ASTM E399</th> <th colspan="4">ASTM A370</th> </tr> <tr> <th>Kerbschlagarbeit Impact Test Resiliência</th> <th>Streckgrenze Yield point Tensão limite</th> <th>Dehngrenze 1% point Limite de extensão</th> <th>Zugfestigkeit Tensile strength Tensão de rotura</th> <th colspan="2">Dehnung Elongation Alongamento</th> <th>Einschnürung Reduction of area Coef. Estricção</th> </tr> <tr> <th>(Charpy V)</th> <th>Rp 0.2 %</th> <th>Rp 1.0%</th> <th>Rm</th> <th>A5</th> <th>4D</th> <th>Z</th> </tr> <tr> <th>[J]</th> <th>[KJ]</th> <th>[KJ]</th> <th>[KJ]</th> <th>[%]</th> <th>[%]</th> <th>[%]</th> </tr> <tr> <td>3057524.01.01</td> <td>82.8</td> <td>89.6</td> <td>103.3</td> <td>43.2</td> <td>45.1</td> <td>68.2</td> </tr> </table>						ASTM E399			ASTM A370				Kerbschlagarbeit Impact Test Resiliência	Streckgrenze Yield point Tensão limite	Dehngrenze 1% point Limite de extensão	Zugfestigkeit Tensile strength Tensão de rotura	Dehnung Elongation Alongamento		Einschnürung Reduction of area Coef. Estricção	(Charpy V)	Rp 0.2 %	Rp 1.0%	Rm	A5	4D	Z	[J]	[KJ]	[KJ]	[KJ]	[%]	[%]	[%]	3057524.01.01	82.8	89.6	103.3	43.2	45.1	68.2
ASTM E399			ASTM A370																																					
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[J]	[KJ]	[KJ]	[KJ]	[%]	[%]	[%]																																		
3057524.01.01	82.8	89.6	103.3	43.2	45.1	68.2																																		
Visuelle Kontrolle Visual Inspection Inspeção visual		ASTM E10 Härte Hardness Dureza		ASTM A262 Practice E Korrosionsbeständigkeit IC Test Corrosão Intertrastina		Wärmebehandlung Heat treatment Tratamento térmico																																		
Maßkontrolle Dimensional Inspection Inspeção dimensional		ASTM E112 Korngröße Grain size Tamanho de grão		Werkstoffverständiger Quality Control Representative Inspetor de Qualidade		Annealed Quenched 1500 °F (1060 °C) (water quenched)																																		
Verwechslungsprüfung Test of identity Teste de identificação		Makroskopische Untersuchung Micrographic test		Nuno Silva (Q-NS)																																				
Bemerkungen / Remarks / Observações Country of origin: Portugal. No weld repair done. Material is free of mercury and radiation contamination.				Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht. We confirm that this material meets the specification according to the mentioned standards. Confirmamos que este material respeita as especificações de acordo com as normas referidas.																																				

196071

CO. 80251 DART

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address : 4054 BOUL. LE CORBUSIER # 201
LAVAL, QC
H7L5R2

commande Sapa / Sapa order # : 7011453

bon de commande / Purchase order # : OU-47404

de matrice / Die # : MS 16703

Alliage & trempage / Alloy & temper :

6061 T6

Description : 2.50" X .750" FLATBAR

Longueur / Length : 6097 mm

Contrôle / Control # : 84120-1

Coulée / Cast # : 68295

Dureté Rockwell E /

Rockwell E hardness : 95 HRE

Min. requis /

Min. required : 88 HRE

Max. permis /

Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	---	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre,
Yours truly,

date : 2017-02-15

Daniel Alfredo Pelletier
Directeur Qualité
Quality Director

FAL 34212

#2610

FAL-381-20

41B6707RA-1405

MILL TEST

FAL 381

SHIP TO ACIER OUELLETTE		CERT CODE: 1	ONE NUMBER S 2222	DATE OF SHIPMENT Nov/03/2016	ORDER NO. 198958 - 1	MANIFEST NO. 359787
SO DESCRIPTION 1" X 3/8" FLAT BAR		CUSTOMER PO 101434	ALLOY 6061	SALESMAN HOUSE ACCOUNTS	MADE IN CANADA	
		CUSTOMER PART NUMBER DT02222	PART DESCRIPTION 1" X 3/8" FLAT BAR	CERTIFICATION MILL TEST ASTM B221-14		

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell E	Conductivity
A.11	6061	Oct/27/2016	43.50	39.30	18.40	88.2, 88.5, 87.9	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	P	Sb	As	Bi	Pb	Sn	Sr	Ca	Al	Other
384191	A.11	6061	0.6	0.18	0.2	0.03	0.86	0.07	0	0.01	0.01	0	0	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications:

David Natale
Quality Control Manager

MILL TEST

BILL TO EXTRUDEX ALUMINUM (QUEBEC) INC.	CERT CODE: 1	DIE NUMBER S 4668	DATE OF SHIPMENT Sep/07/2017	ORDER NO. 208405 - 1	MANIFEST NO. 377291
SHIP TO ACIER CAMPI	CUSTOMER PO 106802	ALLOY 6061	TEMPER T6	SALESMAN HOUSE ACCOUNTS	
SO DESCRIPTION 1" X 6" FLAT BAR	CUSTOMER PART NUMBER DT04658	PART DESCRIPTION 1" X 6" FLAT BAR			
CERTIFICATION MILL TEST ASTM B221-14			MADE IN CANADA		

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Sep/07/2017	42.80	40.30	10.30	90.9,91.1,91.5	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Sn	Pb	Bi	Sr	Co	Al	Other
37241	A.11	6061	0.576	0.216	0.189	0.06	0.832	0.056	0	0.023	0.019	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

T. Mohabir

Tulsiram Mohabir
Quality Control Manager

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018B1.000X03.000
DATE: MAR 28 2018

PO / BATCH NO.: 0394/13/5056016

MATERIAL CERT REC'D: Yes
QUANTITY RECEIVED: 12'
QUANTITY INSPECTED: 12'
QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
THICKNESS RECEIVED: 1.000
SHEET SIZE ORDERED: N/A
SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> N	acceptable use for dart tooling only. AD.
CORRECT THICKNESS	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> N	Heat #171456
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____		
DATE: <u>9-20</u> <u>MAR 28 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DESIGN 	DRAWN BY 	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED 	APPROVED 	DRAWING NO M1010-B	SHEET 1 OF 1
DATE 01.12.06		TITLE AISI 1010-1025 BAR	SCALE N.T.S.
A	01.12.06	NEW ISSUE	

PURCHASE MATERIAL: AISI 1010-1025 OR ASTM A36 / A366 / A569 / A570
OR CSA G40-21, 38W/44W/50W/60W/70W

PART NUMBER: M1010-B | T.TTT | x | WW.WWW | WHERE T.TTT = THICKNESS (IN INCHES)
THICK WIDTH WW.WWW = WIDTH (IN INCHES)

EG. 0.75" x 2.50" BAR = M1010-B0.750 x 02.500

RELEASED
01.12.07

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303R0.625
 DATE: MAR 28 2018

PO / BATCH NO.: 039413/5036017

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.625
 THICKNESS RECEIVED: 0.625
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	Astms A582
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	Heat # 97715
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-28 MAR 28 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION:  ASTM A582

PART NUMBER: M303R0.DDD

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303R0.750

RELEASED
2010-02-02
NR

B	REFORMAT DWG. ADD SPECS (ZN D8-1); REF PAR 08-020A	CP	10.01.05
A	NEW ISSUE	DS	01.12.20
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M303R			
TITLE 303 ROUND BAR			
REV. B SHEET 1 OF 1 SCALE NTS			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304RO.375
 DATE: MAR 28 2018

PO / BATCH NO: 039413/5096018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375
 THICKNESS RECEIVED: 0.375
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	Astm A276
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # 646m
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-89 MAR 28 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)

△/B SPECIFICATION:

ASTM A276

PART NUMBER:

M304R0.750
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 0.75" ROUND BAR = M304R0.750

RELEASED
11/28/25

B	REFORMAT DWG. ADD SPECS (ZN DE-1).	CP	09 07 15
A	NEW ISSUE	AJS	08 03 03
REV.	DESCRIPTION	BY	DATE
DESIGN	ASS		
DRAWN	QA		
CHECKED	LS		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.15		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304R			
REV. B			
SHEET 1 OF 1			
TITLE			
304/316 ROUND BAR			
SCALE			
NTS			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-A513-T-1.000W.120

PO / BATCH NO: 037413/5056019

DATE: MAR 28 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 105'
 QUANTITY INSPECTED: 105'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W.120
 THICKNESS RECEIVED: W.120
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) (N)	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) (N)	
CORRECT MATERIAL PER M-DRAWING	(Y) (N)	A-513
CORRECT THICKNESS	(Y) (N)	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) (N)	Heat # P37954
CORRECT MATERIAL IDENTIFICATION	(Y) (N)	
CORRECT M# ON THE MATERIAL	(Y) (N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>11</u>	SIGNED OFF BY: _____		
DATE: <u>9-89 MAR 28 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM)

SPECIFICATION: ASTM A513 TYPE 5

PART NUMBER: MT-A513-T-D.DDDJW(T.TTT)

WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES

WHERE T.TTT IS WALL THICKNESS IN INCHES

EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW RELEASE	17-555	17.09.06	VM	WM
B	TYPE 5 ADDED, TEMPLATE UPDATED	17-790	17.12.13	VM	ML

DART AEROSPACE	
TITLE: ASTM A513 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM)	
PART NO	NEW
TOOL NO	MT-A513-T
DESIGNED BY: VM 12/12/13	
DRAWN BY: VM 12/13/2017	
CHECKED BY: ML 12/20/2017	
MFG REVIEW BY: DP 12/20/2017	
APPROVED BY: ML 12/20/2017	
SCALE: NTS	
SHEET 1 OF 1	
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONS ARE TO BE MAINTAINED FRACTIONS: 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2, 4 3/4, 5, 5 1/4, 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/4, 9 1/2, 9 3/4, 10, 10 1/4, 10 1/2, 10 3/4, 11, 11 1/4, 11 1/2, 11 3/4, 12, 12 1/4, 12 1/2, 12 3/4, 13, 13 1/4, 13 1/2, 13 3/4, 14, 14 1/4, 14 1/2, 14 3/4, 15, 15 1/4, 15 1/2, 15 3/4, 16, 16 1/4, 16 1/2, 16 3/4, 17, 17 1/4, 17 1/2, 17 3/4, 18, 18 1/4, 18 1/2, 18 3/4, 19, 19 1/4, 19 1/2, 19 3/4, 20, 20 1/4, 20 1/2, 20 3/4, 21, 21 1/4, 21 1/2, 21 3/4, 22, 22 1/4, 22 1/2, 22 3/4, 23, 23 1/4, 23 1/2, 23 3/4, 24, 24 1/4, 24 1/2, 24 3/4, 25, 25 1/4, 25 1/2, 25 3/4, 26, 26 1/4, 26 1/2, 26 3/4, 27, 27 1/4, 27 1/2, 27 3/4, 28, 28 1/4, 28 1/2, 28 3/4, 29, 29 1/4, 29 1/2, 29 3/4, 30, 30 1/4, 30 1/2, 30 3/4, 31, 31 1/4, 31 1/2, 31 3/4, 32, 32 1/4, 32 1/2, 32 3/4, 33, 33 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1/4, 354 1/2, 354 3/4, 355, 355 1/4, 355 1/2, 355 3/4, 356, 356 1/4, 356 1/2, 356 3/4, 357, 357 1/4, 357 1/2, 357 3/4, 358, 358 1/4, 358 1/2, 358 3/4, 359, 359 1/4, 359 1/2, 359 3/4, 360, 360 1/4, 360 1/2, 360 3/4, 361, 361 1/4, 361 1/2, 361 3/4, 362, 362 1/4, 362 1/2, 362 3/4, 363, 363 1/4, 363 1/2, 363 3/4, 364, 364 1/4, 364 1/2, 364 3/4, 365, 365 1/4, 365 1/2, 365 3/4, 366, 366 1/4, 366 1/2, 366 3/4, 367, 367 1/4, 367 1/2, 367 3/4, 368, 368 1/4, 368 1/2, 368 3/4, 369, 369 1/4, 369 1/2, 369 3/4, 370, 370 1/4, 370 1/2, 370	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6R0.750
 DATE: MAR 28 2018

PO / BATCH NO: 039413 / 5056020

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 40'
 QUANTITY INSPECTED: 40'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>Astm B221</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # 68706</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>		SIGNED OFF BY: _____	
DATE: <u>11</u>		DATE: _____	
DATE: <u>MAR 28 2018</u>			

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QLA-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QLA-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R(DDD) DIA

WHERE "D DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
R 2009-08-09
NAB

B	REFORMAT DWG. ADD B211& B221 SPEC (ZN D6-1), REF PAR 08-020A	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG APPR			
APPROVED			
DE APPR			
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
REV. B	SHEET 1 OF 1
DRAWING NO.	M6061T6R
TITLE	6061-T6 ROUND BAR
SCALE	NTS
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-01-R1.250
 DATE: MAR 28 2018

PO / BATCH NO.: 039413/5056021

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 14'
 QUANTITY INSPECTED: 14'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input type="radio"/> N	<u>Astm A681</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input type="radio"/> N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input type="radio"/> N	<u>Heat # 99605800B</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>		SIGNED OFF BY: _____	
DATE: <u>9-89</u> MAR 28 2018		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI O1 TOOL STEEL ROUND BAR
SPECIFICATION: DIN 1.2510 or B.S. BO 1 or
SAE J437 or SAE J438 or UNS T31501 or ASTM A681
PART NUMBER: MT-O1-R [D.DDD]
WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = MT-O1-R0.625

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.08.09	VM	WM

DART AEROSPACE		Windsorbury, Ontario, Canada	
TITLE AISI O1 TOOL STEEL ROUND BAR			
Drawn by	REV	REV	
DESIGN BY: VM 08/12/2017	MT-O1-R	A	
DRAWN BY: VM 08/12/2017			
CHECKED BY: SAC 08/12/2017			
DESIGNED BY: PD 08/12/2017			
QA/APPL: VM 08/12/2017			
APPROVED: VM 08/12/2017			
DATE: 8/31/2017	SCALE: NTS	WEIGHT: N/A LBS	
SHEET 1 OF 1			
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EN 17-149

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 304B 1.000X1.000
 DATE: MAR 28 2018

PO / BATCH NO: 039413/5056022

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>Austin A276</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # 55161496</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 MAR 28 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
(NOTE: AISI 303 NOT ACCEPTABLE)

△ SPECIFICATION: ASTM A276 OR ASTM A240
PART NUMBER: M304B | T.TTT | X | WWW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
AND "WWW.WWW" = WIDTH IN INCHES

△ EG. 0.5" x 3.0" BAR = M304B0.500X03.000
△ EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

2010-11-30

C	ADDED PLATE TO PURCHASE MATERIAL. ADDED PLATE RELATED SPECIFICATIONS AND EG. CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE".	MB	10.11.25
B	REFORMAT DWG. ADD SPECS (ZN D8-1). REF PAR 08-020A.	CP	09.07.15
A	NEW ISSUE	PH	05.06.10
REV	DESCRIPTION	BY	DATE
DESIGN	PH		
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.11.25		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
REV. C SHEET 1 OF 1			
TITLE M304B			
SCALE 304/316 BAR/PLATE			
NTS			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 4606116B0.750X02.700 PO / BATCH NO.: 039413/5056023
 DATE: MAR 28 2018

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>Astm B221</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # 68295</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>77</u>	SIGNED OFF BY: _____		
DATE: <u>MAR 28 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TT | X | WWW.WWW | THICK | WIDTH

WHERE "T.TT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-09-03
MAD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1)	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED	AS		
MFG APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO. M6061T6B		SHEET 1 OF 1	
TITLE 6061-T6 BAR		SCALE NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606176 B0.375X1.000
 DATE: MAR 28 2018

PO / BATCH NO.: 039413 / SO56024

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375
 THICKNESS RECEIVED: 0.375
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	As per B221
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat # 384191
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u>	SIGNED OFF BY: _____		
DATE: <u>9-89 MAR 28 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-03-03
MD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZIN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG APPR.	DS		
APPROVED	DS		
DE APPR.	DS		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6B			
REV. B SHEET 1 OF 1			
TITLE 6061-T6 BAR			
SCALE NTS			
DATE 09.07.13			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061H6B1.000x06.000 PO / BATCH NO.: 039413/5056025
 DATE: MAR 28 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 36
 QUANTITY INSPECTED: 36
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>(Y)</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u> N	<u>Asm B221</u>
CORRECT THICKNESS	<u>(Y)</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u> N	<u>Heat #37241</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u> N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u>	SIGNED OFF BY: _____		
DATE: <u>9-20 MAR 28 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TT | X | WW.WWW |
THICK | WIDTH

WHERE "T.TT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-03-03
MJD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG APPR	DS		
APPROVED	DS		
DE APPR	DS		
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. M6061T6B	REV. B
TITLE 6061-T6 BAR	SHEET 1 OF 1
DATE	SCALE
	NTS

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